1002017 FINAL 03 12 10 1137



United States Environmental Protection Agency Region 9 Laboratory

1337 S. 46th Street Building 201 Richmond, CA 94804

Subject: Analytical Testing Results - Project R10S45

SDG: 10049A

From: Brenda Bettencourt, Director

EPA Region 9 Laboratory

MTS-2

To: Lynda Deschambault

California Site Cleanup Section 1

SFD-7-1

Attached are the results from the analysis of samples from the **GSWC Pioneer 1,2,3 & Dace 1 Influent Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

CC: Tom Perina, CH2M-Hill, Inc.

Kate Brophy, Golden State Water Co.

Electronic CC: Tom Perina, CH2M-Hill

Daniel Jablonski, CH2M-Hill

Kate Brophy, Golden State Water Co.

Analyses included in this report:

Semivolatile Organic Compounds by GC/MS



United States Environmental Protection Agency Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Lynda Deschambault California Site Cleanup Section 1 SDG: 10049A

Project Number: R10S45 75 Hawthorne Street Reported: 03/12/10 11:37

Project: GSWC Pioneer 1,2,3 & Dace 1 Influent San Francisco CA, 94105 Sampling

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
Y5QZ2	1002017-01	Water	02/17/10 09:40	02/18/10 09:55
Y5QZ3	1002017-02	Water	02/17/10 10:30	02/18/10 09:55
Y5QZ4	1002017-03	Water	02/17/10 11:50	02/18/10 09:55
Y5QZ5	1002017-04	Water	02/17/10 11:59	02/18/10 09:55

SDG ID 10049A

Work Order(s)

1002017

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Sample Results

Analyte	Reanalysis / Extract Resu		Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method			
Lab ID: 1002017-01							Water - Sampled: 02/17/10 09:4					
Sample ID: Y5QZ2					-				EPA Method 8270D			
1,4-Dioxane			C1, J	2	ug/L	B0B0110	02/18/10	02/24/10	8270D/SOP315			
Hexachlorocyclopentadiene			U	5		"	"		8270D/SOP315			
Hexachlorobenzene		ND	U	5	"	"	"	"	8270D/SOP315			
Surrogate: 1,4-Dioxane-d8			95 %	20-185%		"	"	"				
Surrogate: 2-Fluorobiphenyl			89 %	26-127%		"	"	"				
Surrogate: Terphenyl-d14			111 %	21-158%		"	"	"				
Lab ID: 1002017-02							Wat	er - Sample	ed: 02/17/10 10:30			
Sample ID: Y5QZ3 1,4-Dioxane		4.7		1.9	ug/L	Semivolatile B0B0110	e Organic Con 02/18/10	npounds by 1 02/24/10	EPA Method 8270D 8270D/SOP315			
Hexachlorocyclopentadiene			U	4.7	"	"	"	"	8270D/SOP315			
Hexachlorobenzene		ND	U	4.7	"	"	"	"	8270D/SOP315			
Surrogate: 1,4-Dioxane-d8			94 %	20-185%		"	"	"				
Surrogate: 2-Fluorobiphenyl			80 %	26-127%		"	"	"				
Surrogate: Terphenyl-d14			107 %	21-158%		"	"	"				
Lab ID: 1002017-03							Wat	er - Sampl	ed: 02/17/10 11:50			
Sample ID: Y5QZ4 1,4-Dioxane		3.8		2	ug/L	Semivolatilo B0B0110	e Organic Con 02/18/10	npounds by 1 02/24/10	EPA Method 8270D 8270D/SOP315			
Hexachlorocyclopentadiene		ND	U	5	"	"	"	"	8270D/SOP315			
Hexachlorobenzene		ND	U	5	"	"	"	"	8270D/SOP315			
Surrogate: 1,4-Dioxane-d8			89 %	20-185%		"	"	"				
Surrogate: 2-Fluorobiphenyl			79 %	26-127%		"	"	"				
Surrogate: Terphenyl-d14			107 %	21-158%		"	"	"				
Lab ID: 1002017-04							Wat	er - Sample	ed: 02/17/10 11:59			
Sample ID: Y5QZ5						Semivolatile	e Organic Con	npounds by	EPA Method 8270D			
1,4-Dioxane		3.6		2	ug/L	B0B0110	02/18/10	02/24/10	8270D/SOP315			
Hexachlorocyclopentadiene		ND	U	5	"	"	"	"	8270D/SOP315			
Hexachlorobenzene		ND	U	5	"	"	"	"	8270D/SOP315			
Surrogate: 1,4-Dioxane-d8			100 %	20-185%		"	"	"				
Surrogate: 2-Fluorobiphenyl			84 %	26-127%		"	"	"				
Surrogate: Terphenyl-d14			114 %	21-158%		"	"	"				

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Project Manager: Lynda Deschambault **SDG:** 10049A

Project Number: R10S45 Project: GSWC Pioneer 1,2,3 & Dace 1 Influent

Sampling

California Site Cleanup Section 1 75 Hawthorne Street San Francisco CA, 94105

Reported: 03/12/10 11:37

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B0B0110 - 3520B CLLE - SVOCs							-	red: 02/18/10	-	
Blank (B0B0110-BLK1)				Semive	olatile Orga	nic Compou	nds by EP	A Method 8270	D - Quality	Contro
1,4-Dioxane	ND	U		1 ug/L						
Hexachlorocyclopentadiene	ND	U		5 "						
Hexachlorobenzene	ND	U		1 "						
Surrogate: 1,4-Dioxane-d8		4.38		"	5.00		88	20-185		
Surrogate: 2-Fluorophenol		41.2		"	50.0		82	27-115		
Surrogate: Phenol-d5		41.5		"	50.0		83	20-129		
Surrogate: 2-Chlorophenol-d4		42.1		"	50.0		84	25-120		
Surrogate: 1,2-Dichlorobenzene-d4		34.5		"	50.0		69	20-123		
Surrogate: Nitrobenzene-d5		38.7		"	50.0		77	20-144		
Surrogate: 2-Fluorobiphenyl		39. <i>4</i>		"	50.0		79	26-127		
Surrogate: 2,4,6-Tribromophenol		39.9		,,	50.0		80	20-127		
Surrogate: Terphenyl-d14		52.5		"	50.0		105	21-158		
LCS (B0B0110-BS1)		32.3			30.0		103	21-130		
1,4-Dioxane	35.1			1 ug/L	40.0		88	64-144		
Hexachlorocyclopentadiene	12.8			5 "	40.0		32	20-110		
Hexachlorobenzene	37.3			1 "	40.0		93	54-120		
Surrogate: 1,4-Dioxane-d8		4.38		"	5.00		88	20-185		
Surrogate: 2-Fluorobiphenyl		42.3		,,	50.0		85	26-127		
Surrogate: Terphenyl-d14		48.0		"	50.0		96	21-158		
Matrix Spike (B0B0110-MS1)	•	Source: 100	2017 01		30.0		90	21-130		
1,4-Dioxane	34.6	Source. 100	2017-01	1 ug/L	38.1	1.03	88	71-131		
Hexachlorocyclopentadiene	14.3			5 "	38.1	NE		20-110		
Hexachlorobenzene	37.1			1 "	38.1	NE		62-122		
Surrogate: 1,4-Dioxane-d8		4.14		"	4.77		87	20-185		
Surrogate: 2-Fluorobiphenyl		41.4		"	47.7		87	26-127		
Surrogate: Terphenyl-d14		47.9		"	47.7		101	21-158		
Matrix Spike Dup (B0B0110-MSD1)		Source: 100	2017-01							
1,4-Dioxane	32.7			0.9 ug/L	37.9	1.03	84	71-131	6	20
Hexachlorocyclopentadiene	14.6			4.7 "	37.9	NE		20-110	3	20
Hexachlorobenzene	36.3			0.9 "	37.9	NE	96	62-122	2	20
Surrogate: 1,4-Dioxane-d8		4.33		"	4.74		91	20-185		
Surrogate: 2-Fluorobiphenyl		41.7		"	47.4		88	26-127		
Surrogate: Terphenyl-d14		49.0		"	47.4		104	21-158		

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San Francisco CA, 94105

Sampling

Qualifiers and Comments

J The reported result for this analyte should be considered an estimated value.

C1 The reported concentration for this analyte is below the quantitation limit.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

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